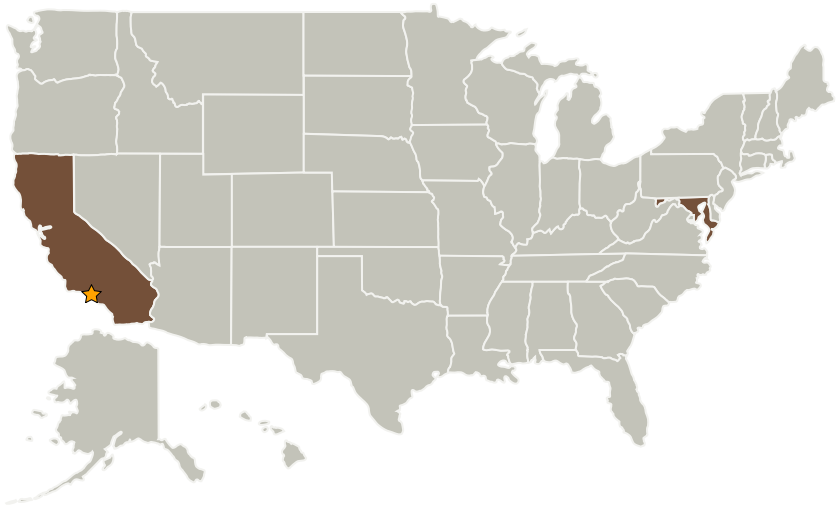
Venus Lander Experiment Vessel, Phase I

Completed Technology Project (2006 - 2006)

Project Introduction

NASA's program for Solar System Exploration will augment the current remote sensing approach to solar system exploration with a robust program that includes in situ measurements at key places. This requires robotic explorers capable of operation and survivability in high-temperature/high-pressure environment to service the needs of the future in situ exploration of Venus as well as atmospheric probes for giant planets. This program will design a Venus probe thermal management system capable of sustaining operation for 20 hours or more. To support the design, new thermal management technologies will be evaluated and considered for use the harsh Venusian environment.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Jet Propulsion Laboratory(JPL)	Lead Organization	NASA Center	Pasadena, California
Ceramic Composites, Inc.	Supporting Organization	Industry	Annapolis, Maryland

Primary U.S. Work Locations	
California	Maryland

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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Jet Propulsion Laboratory (JPL)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Technology Areas

Primary:

- TX08 Sensors and Instruments
  - TX08.3 In-Situ Instruments and Sensors
    - TX08.3.6 Extreme Environments Related to Critical System Health Management